IN THE CLAIMS

1. (Currently Amended) A golf ball comprising a cover,

wherein the cover is made from a cover material including a cured product of a thermosetting resin composition containing a thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4′-dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate;

the polyamine compound contains 3,3'-diethyl-5,5'-dimethyl-4,4'-diaminodiphenylmethane; the stiffness modulus of the cover material is 80 to 260 MPa; and

the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \le A/B \le 5.0, 40 \le B \le 60 55$$

A: Stiffness modulus (MPa)

B: Shore D hardness.

2. (Previously Presented) A golf ball according to claim 1, wherein the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \le A/B \le 4.0$$
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- 3. (Cancelled)
- 4. (Previously Presented) A golf ball according to claim 1, wherein the shore D hardness of the cover material is 45 to 55.
 - 5. (Cancelled)
- 6. (Currently Amended) A method of producing a golf ball having a cover made from a material including a cured product of thermosetting resin composition comprising: selecting a cover material satisfying the following equation:

$$2.0 \le A/B \le 5.0$$

$$40 \le B \le 6055$$

A: Stiffness modulus (MPa)

B: Shore D hardness; and

covering a ball body with the cover material, wherein

the cover is made from a cover material including a cured product of a thermosetting resin composition containing a thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-

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dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone

diisocyanate;

the polyamine compound contains 3,3'-diethyl-5,5'-dimethyl-4,4'-diaminodiphenylmethane; and

the stiffness modulus of the cover material is 80 to 260 MPa.

7. (Previously Presented) The method according to claim 6, wherein the stiffness

modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \le A/B \le 4.0$$
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8. (Cancelled)

9. (Previously Presented) The method according to claim 6, wherein the shore D

hardness of the cover material is 45 to 55.

10. (Cancelled)

11. (Previously Presented) A golf ball according to claim 1, wherein the thermosetting

urethane resin composition consists essentially of the isocyanate group-terminated urethane

prepolymer and the polyamine compound.

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12. (Previously Presented) The method according to claim 6, wherein the thermosetting urethane resin composition consists essentially of the isocyanate group-terminated urethane prepolymer and the polyamine compound.

13. (Currently Amended) A golf ball comprising a cover,

wherein the cover is made from a cover material including a cured product of a thermosetting resin composition containing a thermosetting urethane resin composition;

the thermosetting urethane resin composition consists essentially of an isocyanate groupterminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate;

the polyamine compound contains 3,3'-diethyl-5,5'-dimethyl-4,4'-diaminodiphenylmethane; the stiffness modulus of the cover material is 80 to 260 MPa; and

the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \le A/B \le 5.0, 40 \le B \le 60-55$$

A: Stiffness modulus (MPa)

B: Shore D hardness.

14. (Previously Presented) A golf ball according to claim 1, wherein the cover has a thickness of 0.2 to 1.5mm.

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15. (Previously Presented) A method according to claim 6, wherein the cover has a thickness of 0.2 to 1.5mm.

16. (Previously Presented) A golf ball according to claim 13, wherein the cover has a thickness of 0.2 to 1.5mm.

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